SPRING FLOOD AND WATER RESOURCES OUTLOOK

for the Colorado, North Platte & South Platte Rivers in North Central and Northeast Colorado issued March 2nd, 2017

click the maps & graphs to link to larger images

Flood Outlook Summary:

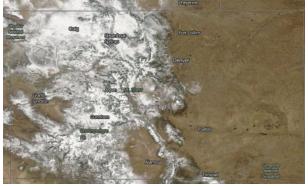
- * Near average risk of minor snowmelt flooding in the North and South Platte River basins.
- * Slightly above average risk of minor snowmelt flooding in the headwaters of the Colorado River in north central Colorado. Areas prone to flooding in the past may experience issues again this year.
- * Significant flooding due to mountain snow runoff alone is not likely. However, it is still early in the snow accumulation season and conditions could change before the runoff begins.

Flooding from snowmelt typically occurs in May and early June. The flood potential is very dependent on weather conditions from now until the melt. The amount of additional snow and rain and the timing of peak flows will have a significant effect on whether it floods.

The potential for rain-induced flash flooding is not quantifiable because this type of flooding is usually caused by localized thunderstorms during the spring and summer.

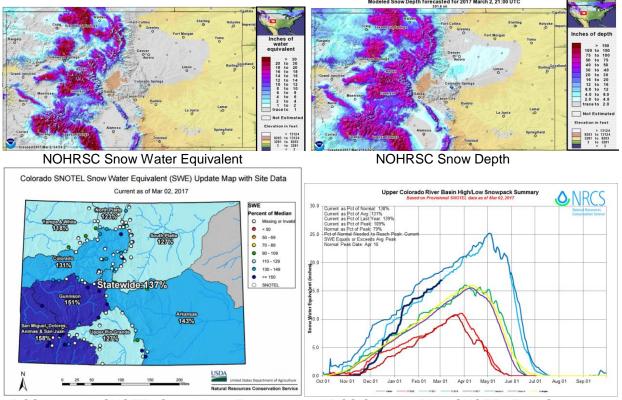
Snow Cover and Mountain Snowpack:

Mountain snowpack remains in good condition...ranging from 123 percent of normal in the North Platte basin to 131 percent of normal in the Colorado River basin. Mountain snowpack does not typically peak until April so we time to accumulate more snow. However, March 2nd snowpack was already 92, 100 and 109 percent of the normal peak snowpack in the South Platte, North Platte and Colorado River basins respectively. It is generally drier east of the Continental Divide below 7000 to 7500 foot elevations.



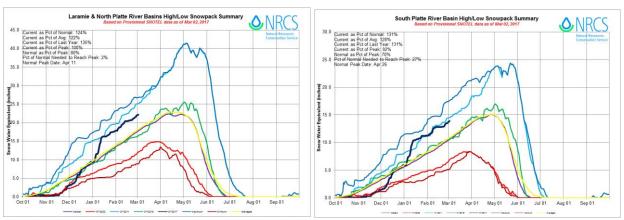


NASA Worldview Satellite Images February 25, 2016 (left) and March 1, 2017 (right)



NRCS Mountain SNOTEL Snow Water Equivalent

NRCS Colorado River SNOTEL Time Series

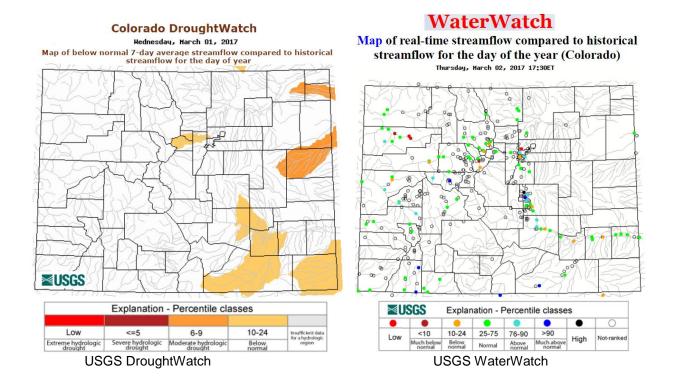


NRCS North Platte River SNOTEL Time Series

NRCS South Platte River SNOTEL Time Series

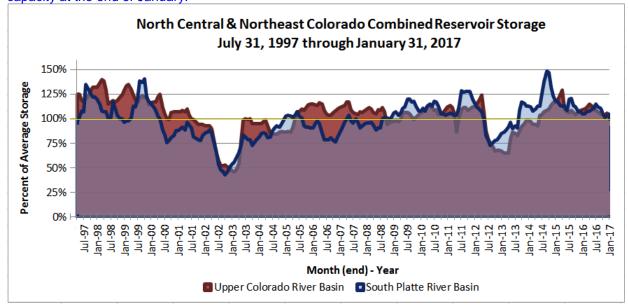
Streamflow:

The majority of rivers and creeks have near normal streamflows. However, a basins including Clear Creek in north central Colorado and Frenchman Creek in extreme northeast Colorado have below normal flows.



Reservoir Storage:

Basin reservoir storage continued to hold fairly steady at 105 percent of average and 73 percent of capacity at the end of January.

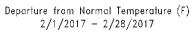


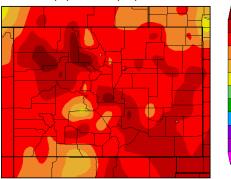
Climate Summaries and U.S. Drought Monitor:

Precipitation and temperatures have generally been near to above normal the past 90 days. Temperatures were 4 to 10 degrees above normal for February. Compared to normal, February was generally drier than either December or January.

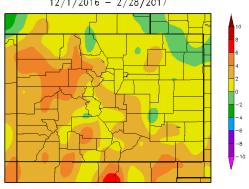
| NWS Cooperative Observer February Precipitation | | | | | | | | |
|---|-------------|-----------------------------|--------|-----------|--------|--|--|--|
| | | February Precipitation % of | | | | | | |
| Location | County | 2017 | Normal | Departure | Normal | | | |
| Above 8000 feet | | | | | | | | |
| Conifer 6NE | Jefferson | 0.46 | 0.90 | -0.44 | 51% | | | |
| Georgetown | Clear Creek | 0.60 | 0.85 | -0.25 | 71% | | | |
| Georgetown 4SW | Clear Creek | 1.00 | 0.89 | 0.11 | 112% | | | |
| Virginia Dale 7ENE | Larimer | 0.76 | 0.50 | 0.26 | | | | |
| Williams Fork Rsvr | Grand | 1.04 | 0.86 | 0.18 | 121% | | | |
| Winter Park | Grand | 2.09 | 2.15 | -0.06 | 97% | | | |
| 6000 to 8000 feet | | | | | | | | |
| Boulder | Boulder | 0.73 | 0.82 | -0.09 | 89% | | | |
| Castle Rock | Douglas | 0.12 | 0.65 | -0.53 | 18% | | | |
| Denver area | Denver | 0.23 | 0.37 | -0.14 | 62% | | | |
| Fort Collins | Larimer | 0.52 | 0.40 | 0.12 | 130% | | | |
| Loveland 2N | Larimer | 0.46 | 0.52 | -0.06 | 88% | | | |
| Wheat Ridge | Jefferson | 0.13 | 0.70 | -0.57 | 19% | | | |
| Urban Corridor | | | | | | | | |
| Akron 4E | Washington | 0.16 | 0.40 | -0.24 | 40% | | | |
| Holyoke | Phillips | 0.30 | 0.49 | -0.19 | 61% | | | |
| Leroy 5WSW | Logan | 0.44 | 0.41 | 0.03 | 107% | | | |
| New Raymer 21N | Weld | 0.28 | 0.36 | -0.08 | 78% | | | |
| Sedgwick 5S | Sedgwick | 0.32 | 0.53 | -0.21 | 60% | | | |
| Woodrow 6NNE | Morgan | 0.09 | 0.34 | -0.25 | 26% | | | |

| NWS Cooperative Observer 90 Day Precipitation | | | | | | | | |
|---|-------------------------------------|---------|--------|-----------|--------|--|--|--|
| | 12/01 thru 02/28 Precipitation % of | | | | | | | |
| Location | Elevation | 16'-17' | Normal | Departure | Normal | | | |
| Above 8000 feet | | | | | | | | |
| Conifer 6NE | 7180 | 1.82 | 2.66 | -0.84 | 68% | | | |
| Georgetown | 8520 | 4.62 | 2.44 | 2.18 | 189% | | | |
| Georgetown 4SW | 10020 | 6.59 | 2.62 | 3.97 | 252% | | | |
| Virginia Dale 7ENE | 7015 | 2.34 | 1.48 | 0.86 | 158% | | | |
| Williams Fork Rsvr | 7618 | 4.11 | 2.57 | 1.54 | 160% | | | |
| Winter Park | 9108 | 9.44 | 6.50 | 2.94 | 145% | | | |
| | | | | | | | | |
| 6000 to 8000 feet | | | | | | | | |
| Boulder | 6484 | 3.05 | 2.52 | 0.53 | 121% | | | |
| Castle Rock | 6184 | 1.44 | 2.01 | -0.57 | 72% | | | |
| Denver area | 5284 | 1.55 | 1.13 | 0.42 | 137% | | | |
| Fort Collins | 5004 | 1.93 | 1.30 | 0.63 | 148% | | | |
| Loveland 2N | 5080 | 2.09 | 1.64 | 0.45 | 127% | | | |
| Wheat Ridge | 5398 | 1.84 | 2.17 | -0.33 | 85% | | | |
| | | | | | | | | |
| Urban Corridor | | | | | | | | |
| Akron 4E | 4540 | 1.03 | 1.18 | -0.15 | 87% | | | |
| Holyoke | 3780 | 1.10 | 1.35 | -0.25 | 81% | | | |
| Leroy 5WSW | 4550 | 1.19 | 1.16 | 0.03 | 103% | | | |
| New Raymer 21N | 5180 | 1.64 | 1.05 | 0.59 | 156% | | | |
| Sedgwick 5S | 3990 | 1.18 | 1.35 | -0.17 | 87% | | | |
| Woodrow 6NNE | 4374 | 1.22 | 1.11 | 0.11 | 110% | | | |





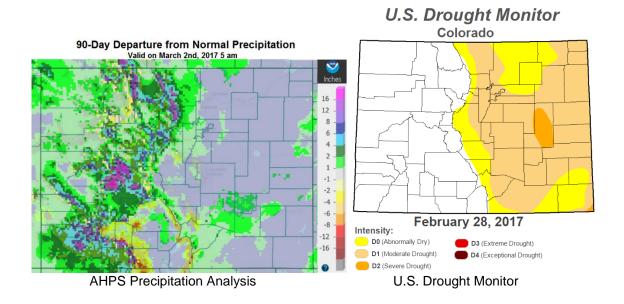
Departure from Normal Temperature (F) 12/1/2016 - 2/28/2017



Generated 3/2/2017 at HPRCC using provisional data.

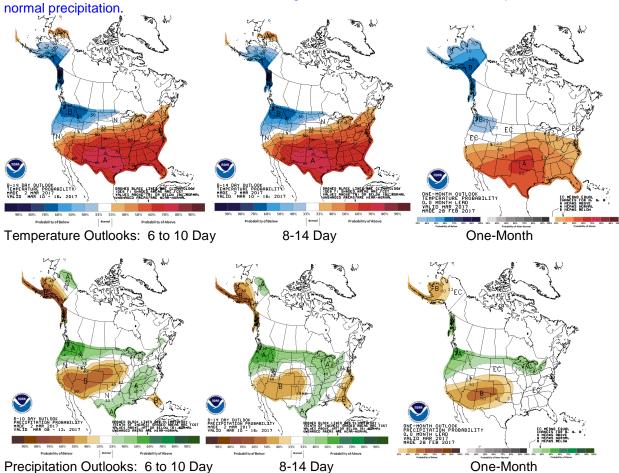
HPRCC

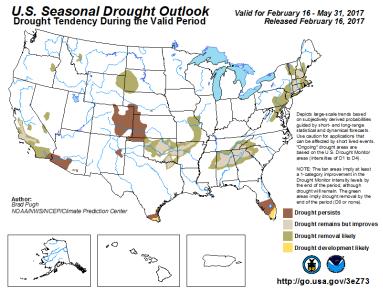
Regional Climate Centers



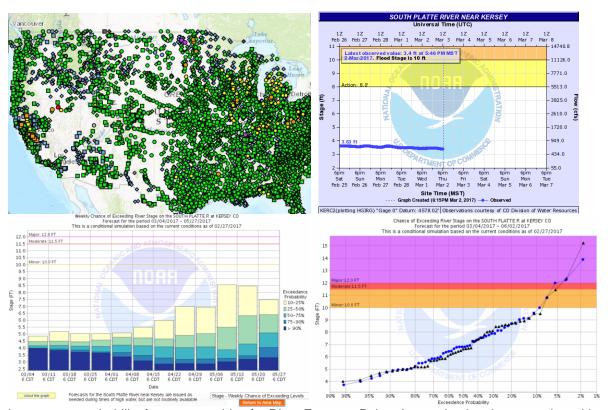
Outlooks:

The outlooks for the month of March indicate a higher likelihood of above normal temperatures and below





U.S. Seasonal Drought Outlook



Long-range probability forecast graphics for River Forecast Points (example: the chance and weekly chances of exceeding flood stage) are available in AHPS by selecting a point. The 'Probability Information' is on the tab farthest right above the hydrograph.